

HALLIBURTON

iCem[®] Service

GREAT WESTERN OIL & GAS LLC - EBUS

Date: Friday, December 16, 2016

KODAK NORTH FD 28-122HC Surface

Job Date: Sunday, December 04, 2016

Sincerely,

Julia Nichols

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Kodak North FD 28-122HC** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Approximately 5 barrels of cement were returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Ft. Lupton]

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Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 346459		Ship To #: 3753693		Quote #:		Sales Order #: 0903693883					
Customer: GREAT WESTERN OIL & GAS LLC - EBUS -				Customer Rep: RUDY							
Well Name: KODAK NORTH FD			Well #: 28-122HC			API/UI #: 05-123-43497-00					
Field: WATTENBERG		City (SAP): WINDSOR		County/Parish: WELD		State: COLORADO					
Legal Description: SE NW-26-6N-67W-2352FNL-1969FWL											
Contractor:				Rig/Platform Name/Num: Spud Rig							
Job BOM: 7521											
Well Type: HORIZONTAL OIL											
Sales Person: HALAMERICA\HX38199					Srvc Supervisor: Joseph Fantasia						
Job											
Formation Name											
Job depth MD		1519ft			Job Depth TVD		1519				
Well Data											
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft	
Open Hole Section			13.5				0	1519			
Casing		9.625	8.921	36			0	1519			
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Fluid Data											
Stage/Plug #: 1											
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
1	Red Dye Spacer	Red Dye Spacer	10	bbl	8.33			2			
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
2	SwiftCem	SWIFTCEM (TM) SYSTEM	641	sack	14.5	1.41		6	6.88		
94 lbm		TYPE I / II CEMENT, BULK (101439798)									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal		
3	Displacement	Displacement	114	bbl	8.34			8			
Cement Left In Pipe		Amount	43 ft			Reason			Shoe Joint		

5 bbl cement to surface

last updated on 12/4/2016 7:51:35 PM

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2.0 Real-Time Job Summary

2.1 Job Event Log

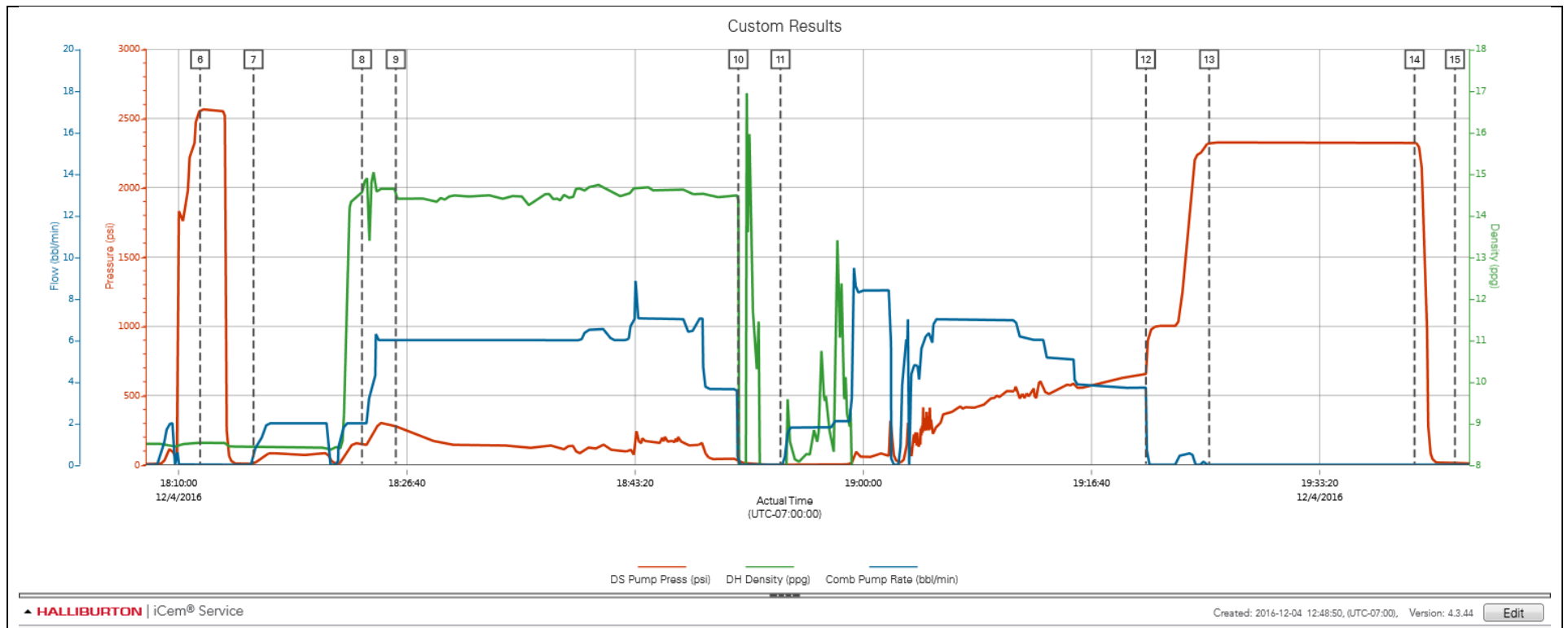
Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press <i>(psi)</i>	DH Density <i>(ppg)</i>	Comb Pump Rate <i>(bbl/min)</i>	Comments
Event	1	Call Out	Call Out	12/4/2016	07:00:00	USER				CREW CALLED OUT @ 0700. REQUESTED ON LOCATION AT 1100.
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	12/4/2016	10:30:00	USER				ARRIVE AT LOCATION AT 1030. HELD SITE ASSESSMENT AND PRE RIG UP SAFETY MEETING WITH CREW PRIOR TO RIGGING UP EQUIPMENT.
Event	3	Other	Other	12/4/2016	14:00:00	USER				WATER TEST TEMP 40 PH - 7 CHLORIDES 0
Event	4	Casing on Bottom	Casing on Bottom	12/5/2016	17:30:00	USER				CASING ON BOTTOM
Event	5	Start Job	Start Job	12/5/2016	18:00:00	COM5				HELD PRE JOB SAFETY MEETING WITH ALL PRESENT PERSONNEL PRIOR TO STARTING JOB.
Event	6	Test Lines	Test Lines	12/5/2016	18:11:34	COM5	2560.00	8.53	0.00	PRESSURE TEST LINES TO 2700 PSI.
Event	7	Pump Spacer 1	Pump Spacer 1	12/5/2016	18:15:28	COM5	9.00	8.44	0.80	PUMP 10 BBLS WATER WITH 1 LB RED DYE ADDED
Event	8	Pump Cement	Pump Cement	12/5/2016	18:23:23	COM5	151.00	14.55	2.00	PUMP 160 BBLS (641 SKS) SWIFTCM MIXED AT 14.5 PPG USING SUPPLIED WATER. DENSITY VERIFIED BY SCALE.
Event	9	Check Weight	Check weight	12/5/2016	18:25:51	COM5				DENSITY VERIFIED BY SCALE
Event	10	Shutdown	Shutdown	12/5/2016	18:50:52	COM5				
Event	11	Pump Displacement	Pump Displacement	12/5/2016	18:53:57	COM5				DISPLACE USING 114 BBLS WATER WITH CUSTOMER SUPPLIED MYOCIDE ADDED THROUGHOUT. COMPANY MAN - APPROX. 5 BBLS CEMENT TO SURFACE.
Event	12	Bump Plug	Bump Plug	12/5/2016	19:20:38	COM5	646.00	7.61	3.80	PLUG LANDED AT 713 PSI. PRESSURE BROUGHT TO 1050 PSI AND HELD 2 MIN.
Event	13	Pressure Test	Pressure Test	12/5/2016	19:25:15	USER	2324.00	7.68	0.00	BRING PRESSURE UP TO 2400 PSI AND HOLD 15 MIN FOR CASING PRESSURE TEST.
Event	14	Check Floats	Check Floats	12/5/2016	19:40:15	USER	2325.00	7.69	0.00	FLOATS HELD. 1.5 BBLS BACK TO TRUCK.
Event	15	End Job	End Job	12/5/2016	19:43:12	COM5				HELD PRE RIG DOWN SAFETY MEETING WITH CREW PRIOR

TO RIGGING DOWN EQUIPMENT.

Event	16	Depart Location	Depart Location	12/5/2016	19:53:42	USER	DEPART LOCATION
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3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

